

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus for providing a welding
current is disclosed. The power source is capable of
receiving any input voltage over a wide range of input
voltages and includes an input rectifier that rectifies
the ac input into a dc signal. A dc voltage stage
converts the dc signal to a desired dc voltage and an
inverter inverts the dc signal into a second ac signal.
10 An output transformer receives the second ac signal and
provides a third ac signal that has a current magnitude
suitable for welding. The welding current may be
rectified and smoothed by an output inductor and an
output rectifier. A controller provides control signals
to the inverter and an auxiliary power controller that
15 can receive a range of input voltages and provide a
control power signal to the controller.

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